Abstract

and method are described herein for system determining the quality of an optical material by measuring analyzing birefringence (e.g., stress-induced birefringence, inherent birefringence) in the material (e.g., glass sheet). The method is a scanning technique in which a birefringence sensor is set to a first optical state and then moved in a direction at a constant velocity over a glass sheet while first power transmission measurements are made at a high data rate. At the end of this move, the birefringence sensor is set to a second optical state and then moved at the same velocity back over. while sheet, second power transmission the glass measurements are made. This procedure is repeated the same number of times there are optical states as birefringence sensor. Α computer then calculates birefringence values using profiles of the power transmission measurements so as to determine the quality of the glass sheet.

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